

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|------------------------|------------------|---------|------------------|
| L1 | 575 | plasma.clm. and (intermodulat\$5 product).clm. and frequency.clm. | US-PGPUB; USPAT | OR | ON | 2007/08/20 17:26 |
| L2 | 158 | plasma.clm. and (intermodulat\$5 product).clm. and frequency.clm. and (detect\$4 sens\$4).clm. | US-PGPUB; USPAT | OR | ON | 2007/08/20 17:27 |
| L3 | 135 | 2 and (substrate wafer semiconductor workpiece) | US-PGPUB; USPAT | OR | ON | 2007/08/20 17:27 |
| L4 | 19 | baldwin-craig.in. spearow-carl.in. vukovic-mirko.in. | US-PGPUB; USPAT | OR | ON | 2007/08/20 17:28 |
| S1 | 40 | (118/715-733.ccls 156/345.\$ccls.) and (control\$4 with (intermodulation multipl\$5) with signal\$3) | US-PGPUB; USPAT | OR | ON | 2007/01/11 14:07 |
| S2 | 5 | (118/715-733.ccls 156/345.\$ccls.) and (plasma with control\$4 with (intermodulation multipl\$5) with signal\$3) | US-PGPUB; USPAT | OR | ON | 2005/09/07 20:33 |
| S3 | 8 | (118/715-733.ccls 156/345.\$ccls.) and (plasma with control\$4 with (intermodulation multipl\$5 product) with signal\$3) | US-PGPUB; USPAT | OR | ON | 2005/09/07 20:39 |
| S4 | 69 | (plasma with control\$4 with (intermodulation multipl\$5 product) with signal\$3) | US-PGPUB; USPAT | OR | ON | 2005/09/07 20:39 |
| S5 | 69 | (plasma with control\$4 with (intermodulat\$3 multipl\$5 product) with signal\$3) | US-PGPUB; USPAT | OR | ON | 2005/09/07 20:49 |
| S6 | 60 | (plasma same control\$4 same (intermodulat\$3 multipl\$5 product) same signal\$3) | EPO; JPO; DERWENT | OR | ON | 2005/09/08 13:22 |
| S7 | 2 | baldwin-craig.in. spearow-carl.in. vukovic-mirko.in. | EPO; JPO; DERWENT | OR | ON | 2005/09/07 21:00 |
| S8 | 12 | baldwin-craig.in. spearow-carl.in. vukovic-mirko.in. | US-PGPUB; USPAT | OR | ON | 2007/08/20 17:28 |
| S9 | 1 | S8 and intermodulat\$4 | US-PGPUB; USPAT | OR | ON | 2005/09/07 21:00 |
| S10 | 0 | 118/724.ccls. and intermodulat\$4 | US-PGPUB; USPAT | OR | ON | 2005/09/07 21:00 |
| S11 | 1 | 156/345.24.ccls. and intermodulat\$4 | US-PGPUB; USPAT | OR | ON | 2005/09/07 21:11 |
| S12 | 65 | 156/345.24.ccls. and (multipl\$5 with (signal value result)) | US-PGPUB; USPAT | OR | ON | 2005/09/07 21:02 |
| S13 | 15 | (156/345.24.ccls. 156/345.28.ccls.) and (multipl\$5 with (signal value result) with plasma) | US-PGPUB; USPAT | OR | ON | 2005/09/07 21:04 |
| S14 | 49 | (156/345.24.ccls. 156/345.28.ccls.) and ((multipl\$5 product) with (signal value result) with plasma) | US-PGPUB; USPAT | OR | ON | 2007/01/10 18:22 |
| S15 | 53 | 156/345.24.ccls. and modulats\$4 | US-PGPUB; USPAT | OR | ON | 2005/09/07 21:12 |
| S16 | 25 | 156/345.24.ccls. and (modulats\$4 with signal) | US-PGPUB; USPAT | OR | ON | 2005/09/07 21:12 |
| S17 | 7 | ((("3752948") or ("5025135") or ("5325019") or ("5458732") or ("5472561") or ("5576629") or ("6351683")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/09/08 12:02 |
| S18 | 7 | ("6351683").URPN. | USPAT | OR | ON | 2005/09/08 12:36 |
| S19 | 23 | ("4043889" "4116783" "4207137" "5025135" "5160402" "5195045" "5325019" "5347460" "5472561" "5474648" "5479340" "5523955" "5535906" "5543689" "5556501" "5556549" "5571366" "5573595" "5576629" "5621331" "5629653" "5658423" "5824606").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/09/08 13:14 |
| S20 | 63 | plasma with test\$3 with sensor | US-PGPUB; USPAT; USOCR | OR | ON | 2005/09/08 13:15 |

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|-----|------|--|------------------------------|----|-----|------------------|
| S21 | 0 | plasma with test\$3 with sensor with (product multipl\$7) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/09/08 13:15 |
| S22 | 0 | plasma with test\$3 with sensor with (sum) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/09/08 13:16 |
| S23 | 0 | plasma with test\$3 with sensor with (sum\$4) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/09/08 13:16 |
| S24 | 10 | plasma same (test\$3 with sensor with (sum\$4 product multipl\$7)) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/09/08 13:19 |
| S25 | 0 | plasma same (test\$3 with sensor with (sum\$4 product multipl\$7)) | EPO; JPO; DERWENT | OR | ON | 2005/09/08 13:19 |
| S26 | 0 | plasma same (test\$3 same sensor same (sum\$4 product multipl\$7)) | EPO; JPO; DERWENT | OR | ON | 2005/09/08 13:20 |
| S27 | 101 | plasma same (sensor same (sum\$4 product multipl\$7)) | EPO; JPO; DERWENT | OR | ON | 2005/09/08 13:20 |
| S28 | 1 | plasma same control\$4 same (intermodulat\$3 multipl\$5 product) same (signal\$3 with ("RF" (radio adj frequency))) | EPO; JPO; DERWENT | OR | ON | 2005/09/08 13:24 |
| S29 | 77 | plasma same control\$4 same (intermodulat\$3 multipl\$5 product) same (signal\$3 with ("RF" (radio adj frequency))) | US-PGPUB; USPAT | OR | ON | 2005/09/08 13:24 |
| S30 | 82 | plasma same control\$4 same (intermodulat\$3 multipl\$7 product sum\$4) same (signal\$3 with ("RF" (radio adj frequency))) | US-PGPUB; USPAT | OR | ON | 2005/09/08 13:24 |
| S31 | 9 | ("4525871").URPN. | USPAT | OR | ON | 2005/09/08 13:36 |
| S32 | 27 | ("5175472").URPN. | USPAT | OR | ON | 2005/09/08 13:43 |
| S33 | 0 | ("6841124").URPN. | USPAT | OR | ON | 2005/09/08 14:13 |
| S34 | 6 | 118/719.ccls. and turner.in. | US-PGPUB; USPAT | OR | ON | 2005/09/12 14:29 |
| S35 | 1 | ("6309901").PN. | US-PGPUB; USPAT | OR | OFF | 2005/09/12 16:19 |
| S36 | 360 | (plasma with (begin\$4 commenc\$4 start\$4 creat\$4) with (signal\$4 detect\$4 measur\$4)) | EPO; JPO; DERWENT | OR | ON | 2005/10/02 20:19 |
| S37 | 13 | S36 and (intermodulat\$4 multipl\$7) | EPO; JPO; DERWENT | OR | ON | 2005/10/02 19:06 |
| S38 | 0 | S36 same (intermodulat\$4 multipl\$7) | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:07 |
| S39 | 0 | S36 and (intermodulat\$4 multipl\$7) | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:06 |
| S41 | 1469 | (plasma with (begin\$4 commenc\$4 start\$4 creat\$4) with (signal\$4 detect\$4 measur\$4)) | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:07 |
| S42 | 30 | S41 same (intermodulat\$4 multipl\$7) | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:19 |
| S43 | 1082 | ((intermodulat\$4 multipl\$7 product) with (signal\$4 detect measur\$4) with plasma) | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:20 |
| S44 | 37 | ((intermodulat\$4 multipl\$7 product) with (signal\$4 detect measur\$4) with plasma with presence) | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:23 |
| S45 | 7 | ((("3572948") or ("5025135") or ("5325019") or ("5458732") or ("5472561") or ("5576629") or ("6351683")).PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/02 19:52 |
| S46 | 0 | moroi.in. and multiplication | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:53 |
| S47 | 1 | moroi.in. and multiplication | EPO; JPO; DERWENT | OR | ON | 2005/10/02 19:53 |

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|-----|-----|--|---|----|----|------------------|
| S48 | 0 | hitachi.as. and (end\$1point with plasma) and multiplication | EPO; JPO; DERWENT | OR | ON | 2005/10/02 19:54 |
| S49 | 0 | hitachi.as. and (end\$1point with plasma) and multiplication | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:54 |
| S50 | 7 | hitachi.as. and (end\$1point with plasma) | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:56 |
| S51 | 14 | plasma same intermodulation | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:56 |
| S52 | 15 | plasma same intermodulat\$4 | US-PGPUB; USPAT | OR | ON | 2005/10/02 19:56 |
| S53 | 4 | ("5536928" "5565737" "5770992" "6061006").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/02 20:05 |
| S54 | 22 | OOHIRAHARA.in. | EPO; JPO; DERWENT | OR | ON | 2005/10/02 20:19 |
| S55 | 8 | OOHIRAHARA.in. and etch\$3 | EPO; JPO; DERWENT | OR | ON | 2005/10/02 20:24 |
| S56 | 2 | "63051484" | EPO; JPO; DERWENT | OR | ON | 2005/10/02 20:23 |
| S57 | 2 | "01226153" | EPO; JPO; DERWENT | OR | ON | 2005/10/02 20:42 |
| S58 | 3 | 156/345.28.ccls. and (signal with test) | US-PGPUB; USPAT | OR | ON | 2005/10/02 20:47 |
| S59 | 51 | 156/345.28.ccls. and (signal with source) | US-PGPUB; USPAT | OR | ON | 2005/10/02 20:44 |
| S60 | 68 | (US-20020026251-\$ or US-20020068012-\$ or US-20020195330-\$ or US-20030015415-\$ or US-20030054655-\$ or US-20030199108-\$ or US-20030226821-\$ or US-20040147131-\$ or US-20040197938-\$ or US-20050034811-\$ or US-20050067102-\$ or US-20050084988-\$ or US-20050087298-\$ or US-20050151544-\$ or US-20040112860-\$ or US-20040226657-\$ or US-20020135378-\$ or US-20040007984-\$).did. or (US-4207137-\$ or US-4525871-\$ or US-5001326-\$ or US-5025135-\$ or US-5160402-\$ or US-5175472-\$ or US-5273609-\$ or US-5405488-\$ or US-5467013-\$ or US-5472561-\$ or US-5479340-\$ or US-5523955-\$ or US-5552675-\$ or US-5705931-\$ or US-5770922-\$ or US-5971591-\$ or US-6197116-\$ or US-6252354-\$ or US-6287980-\$ or US-6351683-\$ or US-6447719-\$ or US-6458321-\$ or US-6535785-\$ or US-6615157-\$ or US-6825050-\$ or US-6825920-\$).did. or (US-6841124-\$ or US-6852277-\$ or US-6902646-\$ or US-6920312-\$ or US-6939519-\$ or US-RE38273-\$ or US-5325019-\$ or US-5458732-\$ or US-5029174-\$ or US-5565737-\$ or US-6522121-\$ or US-6707255-\$).did. or (EP-568920-\$ or EP-458324-\$).did. or (JP-01048420-\$ or JP-06045267-\$ or JP-61247031-\$ or JP-01226153-\$).did. or (SU-1184113-\$ or US-20050067102-\$ or EP-458324-\$ or EP-685729-\$ or WO-9907914-\$ or JP-01226153-\$).did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/10/02 20:44 |
| S61 | 6 | S59 and S60 | US-PGPUB; USPAT | OR | ON | 2005/10/02 20:44 |
| S62 | 182 | 156/345.28.ccls. | US-PGPUB; USPAT | OR | ON | 2005/10/02 20:47 |
| S63 | 58 | S62 and ((transmi\$5 send\$3 sent) with signal) | US-PGPUB; USPAT | OR | ON | 2005/10/02 20:48 |
| S64 | 3 | ("4668366" "5173146" "5415718").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/02 21:09 |

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|-----|-----|--|------------------------------|----|-----|------------------|
| S65 | 4 | ("6060329").URPN. | USPAT | OR | ON | 2005/10/02 21:11 |
| S66 | 182 | 156/345.28.ccls. | US-PGPUB; USPAT | OR | ON | 2005/10/03 14:38 |
| S67 | 1 | S66 and (signal\$3 with ignit\$5) | US-PGPUB; USPAT | OR | ON | 2005/10/03 13:43 |
| S68 | 58 | ("2405229" "2483189" "2735941" "2971153" "3265967" "3290614" "3383509" "3388327" "3416077" "3439266" "3474336" "3490037" "3509452" "3572948" "3599089" "3699475" "3899752" "3956695" "4034312" "4096453" "4354166" "4540955" "4775845" "4899100" "4944211" "4949053" "4952246" "5082517" "5245405" "5304282" "5383019" "5455565" "5506475" "5568801" "5621331" "5691642" "5907820" "5936413" "5939886" "5945888" "6027601" "6074568" "6260408" "6339297" "6573731").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/03 13:48 |
| S69 | 5 | ("3572948").URPN. | USPAT | OR | ON | 2005/10/03 13:53 |
| S70 | 5 | ("3572948").URPN. | USPAT | OR | ON | 2005/10/03 13:57 |
| S71 | 31 | ("5383019").URPN. | USPAT | OR | ON | 2005/10/03 14:02 |
| S72 | 7 | ("5691642").URPN. | USPAT | OR | ON | 2005/10/03 14:19 |
| S73 | 6 | ("4951602" "5180985" "5194731" "5308977" "5519215" "5545895").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/03 14:21 |
| S74 | 0 | ("6799532").URPN. | USPAT | OR | ON | 2005/10/03 14:27 |
| S75 | 1 | ("3572948").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/03 14:36 |
| S76 | 1 | ("5691642").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/03 14:36 |
| S77 | 6 | ("4951602" "5180985" "5194731" "5308977" "5519215" "5545895").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/10/03 14:36 |
| S78 | 106 | 156/345.28.ccls. and (sens\$3 ignit\$4) | US-PGPUB; USPAT | OR | ON | 2005/10/03 14:38 |
| S79 | 6 | 156/345.28.ccls. and (sens\$3 with ignit\$4) | US-PGPUB; USPAT | OR | ON | 2005/10/03 15:07 |
| S80 | 1 | ("20010051437").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/03 15:15 |
| S81 | 1 | ("5691642").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/03 15:15 |

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|-----|------|--|---|----|-----|------------------|
| S82 | 87 | (US-20010051437-\$ or US-20020026251-\$ or US-20020068012-\$ or US-20020135378-\$ or US-20020195330-\$ or US-20030015415-\$ or US-20030054655-\$ or US-20030132195-\$ or US-20030199108-\$ or US-20030226821-\$ or US-20040007984-\$ or US-20040112536-\$ or US-20040112860-\$ or US-20040147131-\$ or US-20040197938-\$ or US-20040226657-\$ or US-20050034811-\$ or US-20050034812-\$ or US-20050067102-\$ or US-20050084988-\$ or US-20050087298-\$ or US-20050151544-\$ or US-20050194094-\$).did. or (US-4207137-\$ or US-4525871-\$ or US-5001326-\$ or US-5025135-\$ or US-5029174-\$ or US-5160402-\$ or US-5175472-\$ or US-5273609-\$ or US-5325019-\$ or US-5405488-\$ or US-5458732-\$ or US-5467013-\$ or US-5472561-\$ or US-5479340-\$ or US-5523955-\$ or US-5552675-\$ or US-5565737-\$ or US-5705931-\$ or US-5770922-\$ or US-5851842-\$ or US-5971591-\$ or US-6060329-\$ or US-6197116-\$ or US-6252354-\$ or US-6287980-\$ or US-6351683-\$).did. or (US-6447719-\$ or US-6458321-\$ or US-6522121-\$ or US-6535785-\$ or US-6615157-\$ or US-6707255-\$ or US-6825050-\$ or US-6825920-\$ or US-6841124-\$ or US-6852277-\$ or US-6902646-\$ or US-6920312-\$ or US-6929712-\$ or US-6939519-\$ or US-RE38273-\$ or US-6799532-\$ or US-3265967-\$ or US-3572948-\$ or US-6646386-\$ or US-6741944-\$ or US-6861844-\$ or US-5383019-\$ or US-5793162-\$ or US-5691642-\$ or US-6573731-\$ or US-5180985-\$).did. or (EP-458324-\$ or EP-568920-\$).did. or (JP-01048420-\$ or JP-01226153-\$ or JP-06045267-\$ or JP-61247031-\$).did. or (SU-1184113-\$ or JP-01226153-\$ or EP-458324-\$ or EP-685729-\$ or WO-9907914-\$ or US-20050067102-\$).did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/10/03 15:22 |
| S83 | 33 | S82 and amplif\$7 | US-PGPUB; USPAT | OR | ON | 2005/10/03 15:24 |
| S84 | 2 | S82 and (isolat\$4 with amplif\$7) | US-PGPUB; USPAT | OR | ON | 2005/10/03 15:24 |
| S85 | 13 | baldwin-craig.in. spearow-carl.in. vukovic-mirko.in. | US-PGPUB; USPAT | OR | ON | 2005/10/03 16:32 |
| S86 | 1545 | 118/723r.ccls. 118/663.ccls. 118/688.ccls. 156/345.28.ccls. | US-PGPUB; USPAT | OR | ON | 2005/10/03 16:47 |
| S87 | 2 | S86 and intermodulat\$4 | US-PGPUB; USPAT | OR | ON | 2005/10/03 16:48 |
| S88 | 90 | S86 and (plasma with signal\$3 with control\$4) | US-PGPUB; USPAT | OR | ON | 2005/10/03 16:48 |
| S89 | 22 | ((("3297745") or ("3804736") or ("4180598") or ("4585519") or ("4716270") or ("4869778") or ("5039715") or ("5081174") or ("5126005") or ("5191014") or ("5260350") or ("5380387") or ("5388754") or ("5420171") or ("5466739") or ("5571570") or ("5695659") or ("5773487") or ("5800695") or ("5945462") or ("6045032") or ("6136880"))).PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/04 14:50 |
| S90 | 1 | ("6951263").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/04 14:51 |
| S91 | 1 | ("6951623").PN. | US-PGPUB; USPAT | OR | OFF | 2005/10/04 14:51 |
| S92 | 0 | (10/674,920).CCLS. | US-PGPUB; USPAT | OR | OFF | 2006/02/21 08:50 |
| S93 | 1 | 10/674,920 | US-PGPUB; USPAT | OR | ON | 2006/02/21 09:05 |
| S94 | 0 | plasma same (summing with circuit) same (isolation with amplifier) | US-PGPUB; USPAT | OR | ON | 2006/02/21 09:06 |

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| S95 | 13 | plasma same (summing with circuit) | US-PGPUB; USPAT | OR | ON | 2006/02/21 09:06 |
| S96 | 39 | ("5308414").URPN. | USPAT | OR | ON | 2006/02/21 09:18 |
| S97 | 3 | ("5013886").URPN. | USPAT | OR | ON | 2006/02/21 09:21 |
| S98 | 6 | ("4289188" "4430151" "4491499" "4657620" "5045149" "5160402").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/21 09:37 |
| S99 | 31 | plasma same signal same transmit\$5 same sum\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/21 09:54 |
| S10 0 | 214262 | plasma same input\$4 signal same sum\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/21 09:54 |
| S10 1 | 52335 | plasma same input\$4 signal same sum\$4 | EPO; JPO; DERWENT | OR | ON | 2006/02/21 09:55 |
| S10 2 | 8 | plasma same input\$4 same signal same sum\$4 | EPO; JPO; DERWENT | OR | ON | 2006/02/21 09:55 |
| S10 3 | 54 | plasma same input\$4 same signal same sum\$4 | US-PGPUB; USPAT | OR | ON | 2006/02/21 09:59 |
| S10 4 | 8 | plasma with input\$4 with signal with sum\$4 | US-PGPUB; USPAT | OR | ON | 2006/02/21 09:59 |
| S10 5 | 3 | ("5013886").URPN. | USPAT | OR | ON | 2006/02/21 10:13 |
| S10 6 | 8 | ("5059761").URPN. | USPAT | OR | ON | 2006/02/21 10:14 |
| S10 7 | 1 | (118/715-733.ccls 156/345.\$ccls.) and (((sum\$4 combin\$4) with input with signal) same plasma) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:25 |
| S10 8 | 13 | (118/715-733.ccls 156/345.\$ccls.) and (((sum\$4 combin\$4) with input with signal)) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:57 |
| S10 9 | 23 | (118/715-733.ccls 156/345.\$ccls.) and (test with signal) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:37 |
| S11 0 | 9 | plasma with ("test signal") | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:43 |
| S11 1 | 119 | plasma with detect\$3 with (signal) with source | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:43 |
| S11 2 | 71 | plasma with detect\$3 with (signal) with source | EPO; JPO; DERWENT | OR | ON | 2006/02/21 10:47 |
| S11 3 | 3 | (plasma with detect\$3 with (signal) with source) and sum\$4 | EPO; JPO; DERWENT | OR | ON | 2006/02/21 10:48 |
| S11 4 | 3 | (plasma with (sens\$4 determin\$4)) and (sum\$4 with circuit) | EPO; JPO; DERWENT | OR | ON | 2006/02/21 10:50 |
| S11 5 | 154 | (plasma with (sens\$4 determin\$4)) and (sum\$4 with circuit) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:51 |
| S11 6 | 5 | (plasma with (sens\$4 determin\$4)) same (sum\$4 with circuit) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:51 |
| S11 7 | 2 | (118/715-733.ccls 156/345.\$ccls.) and (signal with source with sum\$4 with circuit) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:58 |
| S11 8 | 2 | (118/715-733.ccls 156/345.\$ccls.) and (signal with source with sum\$4) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:58 |
| S11 9 | 2 | (118/715-733.ccls 156/345.\$ccls.) and (source with sum\$4 with circuit) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:58 |
| S12 0 | 26 | (118/715-733.ccls 156/345.\$ccls.) and (sum\$4 with circuit) | US-PGPUB; USPAT | OR | ON | 2006/02/21 10:58 |
| S12 1 | 26 | (118/715-733.ccls 156/345.\$ccls.) and (sum\$4 with circuit) | US-PGPUB; USPAT | OR | ON | 2006/02/21 11:07 |

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| S12 2 | 1 | ("6652710").PN. | US-PGPUB; USPAT | OR | OFF | 2006/02/21 11:07 |
| S12 3 | 0 | ("6652710").URPN. | USPAT | OR | ON | 2006/02/21 11:09 |
| S12 4 | 21 | ("4198261" "4208240" "4842683" "4953982" "5200023" "5320880" "5362356" "5362969" "5406080" "5444637" "5467013" "5479340" "5497331" "5536359" "5567267" "5635409" "5711843" "5739051" "5788801" "5902403" "5955383").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/21 11:09 |
| S12 5 | 19 | S124 and sum\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2006/02/21 11:09 |
| S12 6 | 0 | ((("US6863018B2") or ("US6858446B2") or ("US6830650B2") or ("US6908529B2")).PN. | US-PGPUB; USPAT | OR | OFF | 2006/02/21 16:52 |
| S12 7 | 4 | ((("6863018") or ("6858446") or ("6830650") or ("6908529")). PN. | US-PGPUB; USPAT | OR | OFF | 2006/03/06 13:33 |
| S12 8 | 1 | 10/402,927 | US-PGPUB; USPAT | OR | ON | 2006/03/01 20:39 |
| S12 9 | 4 | ((("6863018") or ("6858446") or ("6830650") or ("6908529")). PN. | US-PGPUB; USPAT | OR | OFF | 2006/03/06 13:33 |
| S13 0 | 1 | S129 and amplif\$5 | US-PGPUB; USPAT | OR | ON | 2006/03/06 13:34 |
| S13 1 | 98 | (US-20030015415-\$ or US-20050151544-\$ or US-20030199108-\$ or US-20020026251-\$ or US-20040112536-\$ or US-20050067102-\$ or US-20030054655-\$ or US-20050087298-\$ or US-20040197938-\$ or US-20050034811-\$ or US-20030226821-\$ or US-20040147131-\$ or US-20030132195-\$ or US-20020068012-\$ or US-20020195330-\$ or US-20050084988-\$ or US-20040112860-\$ or US-20040226657-\$ or US-20050034812-\$ or US-20010051437-\$ or US-20040007984-\$ or US-20020135378-\$ or US-20050194094-\$).did. or (US-5523955-\$ or US-5273609-\$ or US-6825920-\$ or US-6939519-\$ or US-6351683-\$ or US-5552675-\$ or US-4207137-\$ or US-RE38273-\$ or US-5160402-\$ or US-6929712-\$ or US-6615157-\$ or US-6920312-\$ or US-6287980-\$ or US-6830650-\$ or US-5025135-\$ or US-5325019-\$ or US-5971591-\$ or US-6841124-\$ or US-6852277-\$ or US-4962461-\$ or US-6252354-\$ or US-5472561-\$ or US-6825050-\$ or US-5479340-\$ or US-5846882-\$ or US-6652710-\$).did. or (US-6535785-\$ or US-6902646-\$ or US-6863018-\$ or US-6858446-\$ or US-6908529-\$ or US-5001326-\$ or US-6447719-\$ or US-6458321-\$ or US-5458732-\$ or US-5405488-\$ or US-6197116-\$ or US-4525871-\$ or US-6707255-\$ or US-5705931-\$ or US-5565737-\$ or US-5467013-\$ or US-5770922-\$ or US-5175472-\$ or US-6522121-\$ or US-5029174-\$ or US-6060329-\$ or US-5851842-\$ or US-5383019-\$ or US-3265967-\$ or US-6861844-\$ or US-6741944-\$ or US-5793162-\$).did. or (US-3572948-\$ or US-6573731-\$ or US-6799532-\$ or US-5691642-\$ or US-6646386-\$ or US-5180985-\$ or US-5308414-\$ or US-5013886-\$ or US-5552016-\$ or US-5059761-\$).did. or (EP-568920-\$ or EP-458324-\$).did. or (JP-06045267-\$ or JP-01048420-\$ or JP-61247031-\$ or JP-01226153-\$).did. or (SU-1184113-\$ or US-20050067102-\$ or WO-9907914-\$ or EP-458324-\$ or EP-685729-\$ or JP-01226153-\$).did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/03/06 14:53 |
| S13 2 | 7 | S131 and sine | US-PGPUB; USPAT | OR | ON | 2006/03/06 15:02 |
| S13 3 | 11 | plasma same sine same wave same oscillator | US-PGPUB; USPAT | OR | ON | 2006/03/06 15:08 |

EAST Search History

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|----------|----|--|----------------------------------|----|-----|------------------|
| S13 4 | 27 | plasma same sine same wave same oscillat\$4 | US-PGPUB; USPAT | OR | ON | 2006/03/06 15:08 |
| S13 5 | 16 | S134 not S133 | US-PGPUB; USPAT | OR | ON | 2006/03/06 15:08 |
| S13 6 | 1 | ("5025135").PN. | US-PGPUB; USPAT | OR | OFF | 2007/01/10 16:39 |
| S13 7 | 6 | ("5025135").URPN. | USPAT | OR | ON | 2007/01/10 16:39 |
| S13 8 | 16 | ("6351683" "6535785").URPN. | USPAT | OR | ON | 2007/01/10 17:06 |
| S13 9 | 29 | (118/715-733.ccls. 700/121.ccls. 156/345\$.ccls.) and ((determin\$5 recogni\$4) with (present presence) with plasma) | USPAT | OR | ON | 2007/01/10 17:08 |
| S14 0 | 74 | ("5658423").URPN. | USPAT | OR | ON | 2007/01/10 17:10 |
| S14 1 | 81 | (156/345.24.ccls. 156/345.28.ccls.) and ((sens\$4 detect\$3 recogni\$5) with (present presence)) | US-PGPUB; USPAT | OR | ON | 2007/01/10 18:24 |
| S14 2 | 11 | (156/345.24.ccls. 156/345.28.ccls.) and (((sens\$4 detect\$3 recogni\$5) with (present presence)) same (calculat\$4 equation multiply product multiplication intermodulation)) | US-PGPUB; USPAT | OR | ON | 2007/01/10 18:46 |
| S14 3 | 5 | ("5322590" "5571366" "5733820" "5958258" "6090718").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/01/10 18:30 |
| S14 4 | 0 | ("6783626").URPN. | USPAT | OR | ON | 2007/01/10 18:36 |
| S14 5 | 1 | ("2005/0067102").URPN. | USPAT | OR | ON | 2007/01/10 18:45 |
| S14 6 | 25 | (700/121.ccls.) and (((sens\$4 detect\$3 recogni\$5) with (present presence)) same (calculat\$4 equation multiply product multiplication intermodulation)) | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:12 |
| S14 7 | 10 | klekotka.in. | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:09 |
| S14 8 | 1 | ("6351863").PN. | US-PGPUB; USPAT | OR | OFF | 2007/01/10 19:09 |
| S14 9 | 1 | ("6351683").PN. | US-PGPUB; USPAT | OR | OFF | 2007/01/10 19:09 |
| S15 0 | 0 | (700/121.ccls.) and (intermodulation) | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:11 |
| S15 1 | 0 | (700/121.ccls.) and (inter\$1modulation) | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:11 |
| S15 2 | 0 | (700/121.ccls.) and (inter\$1modulat\$3) | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:15 |
| S15 3 | 85 | (700/121.ccls.) and (modulat\$3) | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:11 |
| S15 4 | 35 | (700/121.ccls.) and ((modulat\$3) with signal) | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:12 |
| S15 5 | 10 | (700/121.ccls.) and (((sens\$4 detect\$3 recogni\$5) with (present presence)) same (calculat\$4 equation multiply product multiplication intermodulation)) and plasma | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:12 |
| S15 6 | 10 | plasma with (inter\$1modulat\$3) | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:22 |
| S15 7 | 3 | plasma with (inter\$1modulat\$3) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:42 |
| S15 8 | 3 | plasma same (inter\$1modulat\$3) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:23 |

EAST Search History

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|------|------|---|----------------------------|----|----|------------------|
| S159 | 3 | plasma and (inter\$1modulat\$3) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:42 |
| S160 | 2 | (c23c016\$.ipc. c23f001\$.ipc. h011021.ipc.) and (inter\$1modulat\$3) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:43 |
| S161 | 2340 | (inter\$1modulat\$3) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:43 |
| S162 | 478 | (inter\$1modulat\$3) and product | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:44 |
| S163 | 478 | (inter\$1modulat\$3) and product | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:44 |
| S164 | 262 | (inter\$1modulat\$3) and product and (system apparatus chamber reactor) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:45 |
| S165 | 398 | (inter\$1modulat\$3) and product and (determin\$5 sens\$4 signal\$3 sens\$3 detect\$3 measur\$4) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:45 |
| S166 | 120 | (inter\$1modulat\$3) and product and (determin\$5 sens\$4 signal\$3 sens\$3 detect\$3 measur\$4) and control\$4 | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:46 |
| S167 | 54 | (inter\$1modulat\$3) and product and (determin\$5 sens\$4 signal\$3 sens\$3 detect\$3 measur\$4) and control\$4 and (energy power) | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:46 |
| S168 | 1 | (inter\$1modulat\$3) and product and (determin\$5 sens\$4 signal\$3 sens\$3 detect\$3 measur\$4) and control\$4 and (energy power) and plasma | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:49 |
| S169 | 16 | coumou.in. | EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/01/10 19:53 |
| S170 | 14 | coumou.in. | US-PGPUB; USPAT | OR | ON | 2007/01/10 19:54 |
| S171 | 12 | (mix\$3 combin\$5) same plasma same harmonic\$5 same (sens\$3 detect\$3) | US-PGPUB; USPAT | OR | ON | 2007/01/11 14:08 |
| S172 | 6 | (mix\$3 combin\$5) same plasma same harmonic\$5 same (sens\$3 detect\$3) same signal | US-PGPUB; USPAT | OR | ON | 2007/01/11 15:11 |
| S173 | 4 | (mix\$3 combin\$5) and plasma and harmonic\$5 and (sens\$3 detect\$3) and signal | EPO; JPO; DERWENT | OR | ON | 2007/01/11 16:19 |
| S174 | 2 | "20040222184" | EPO; JPO; DERWENT | OR | ON | 2007/01/11 15:59 |
| S175 | 4 | "2003055286" | EPO; JPO; DERWENT | OR | ON | 2007/01/11 16:00 |
| S176 | 9 | "1602651" | EPO; JPO; DERWENT | OR | ON | 2007/01/11 16:07 |
| S177 | 4 | "10041097" | EPO; JPO; DERWENT | OR | ON | 2007/01/11 16:07 |
| S178 | 0 | plasma and harmonic\$5 and (sens\$3 detect\$3)and (signal with (\$4correlat\$4 \$4relat\$4) with \$4linear\$4) | EPO; JPO; DERWENT | OR | ON | 2007/01/11 16:14 |
| S179 | 0 | plasma and(sens\$3 detect\$3) and (signal with (\$4correlat\$4 \$4relat\$4) with \$4linear\$4) | EPO; JPO; DERWENT | OR | ON | 2007/01/11 16:13 |
| S180 | 15 | plasma and (sens\$3 detect\$3) and ((\$4correlat\$4 \$4relat\$4) with \$4linear\$4) | EPO; JPO; DERWENT | OR | ON | 2007/01/11 16:13 |
| S181 | 59 | plasma and harmonic\$5 and (sens\$3 detect\$3)and (signal with (\$4correlat\$4 \$4relat\$4) with \$4linear\$4) | US-PGPUB; USPAT | OR | ON | 2007/01/11 16:14 |

EAST Search History

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|----------|------|--|----------------------|----|-----|------------------|
| S18 2 | 0 | plasma same harmonic\$5 same (sens\$3 detect\$3) same (signal with (\$4correlat\$4 \$4relat\$4) same \$4linear\$4) | US-PGPUB; USPAT | OR | ON | 2007/01/11 16:14 |
| S18 3 | 3 | 315/111.21.ccls. and inter\$1modulat\$4 | US-PGPUB; USPAT | OR | ON | 2007/01/11 16:22 |
| S18 4 | 5 | 315/111.01-111.71.ccls. and inter\$1modulat\$4 | US-PGPUB; USPAT | OR | ON | 2007/01/11 16:35 |
| S18 5 | 22 | 315/111.01-111.71.ccls. and ((detect\$4 sens\$4) with ignit\$4) | US-PGPUB; USPAT | OR | ON | 2007/01/11 16:35 |
| S18 6 | 7 | 315/111.01-111.71.ccls. and ((detect\$4 sens\$4) with ignit\$4 with signal\$4) | US-PGPUB; USPAT | OR | ON | 2007/01/11 16:35 |
| S18 7 | 3889 | inter\$1modulat\$4 with signal | US-PGPUB; USPAT | OR | ON | 2007/08/20 17:26 |
| S18 8 | 6 | S187 same plasma | US-PGPUB; USPAT | OR | ON | 2007/01/19 14:04 |
| S18 9 | 5 | inter\$1modulat\$4.clm. and (sens\$3 detect\$3 measur\$3 observ\$3).clm. and plasma.clm. | US-PGPUB; USPAT | OR | ON | 2007/01/19 14:54 |
| S19 0 | 45 | plasma same (non\$1linear\$4 with (amplifier filter)) | US-PGPUB; USPAT | OR | ON | 2007/01/19 14:34 |
| S19 1 | 1 | ("5025135").PN. | US-PGPUB; USPAT | OR | OFF | 2007/01/19 14:34 |
| S19 2 | 1 | gesche.in. and (plasma same nonlinear\$5) | US-PGPUB; USPAT | OR | ON | 2007/01/19 14:35 |
| S19 3 | 0 | gesche.in. and (plasma same nonlinear\$5) | EPO; JPO; DERWENT | OR | ON | 2007/01/19 14:52 |
| S19 4 | 2 | gesche.in. and (plasma same harmonic\$5) | EPO; JPO; DERWENT | OR | ON | 2007/01/19 14:35 |
| S19 5 | 5 | ("3694655").URPN. | USPAT | OR | ON | 2007/01/19 14:51 |

EAST Search History

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|----------|-----|--|---|----|----|------------------|
| S19 6 | 130 | (US-20030015415-\$ or US-20050034811-\$ or US-20040197938-\$ or US-20030136511-\$ or US-20030132195-\$ or US-20030054655-\$ or US-20030199108-\$ or US-20040226657-\$ or US-20040112860-\$ or US-20030052083-\$ or US-20050151544-\$ or US-20020068012-\$ or US-20020195330-\$ or US-20040147131-\$ or US-20050067102-\$ or US-20030226821-\$ or US-20040112536-\$ or US-20050087298-\$ or US-20050252884-\$ or US-20040128021-\$ or US-20040128014-\$ or US-20050234574-\$ or US-20050264218-\$ or US-20020180450-\$ or US-20020132479-\$ or US-20040222184-\$).did. or (US-20050084988-\$ or US-20020026251-\$ or US-20050194094-\$ or US-20050034812-\$ or US-20040007984-\$ or US-20020135378-\$ or US-20010051437-\$ or US-20040035837-\$).did. or (US-5479340-\$ or US-6852277-\$ or US-6447719-\$ or US-6825920-\$ or US-6902646-\$ or US-6608446-\$ or US-6458321-\$ or US-5472561-\$ or US-6535785-\$ or US-6615157-\$ or US-6830650-\$ or US-6252354-\$ or US-5273609-\$ or US-4962461-\$ or US-5523955-\$ or US-6351683-\$ or US-6841124-\$ or US-6939519-\$ or US-6165312-\$ or US-5001326-\$ or US-5552675-\$ or US-4207137-\$ or US-5160402-\$ or US-6929712-\$ or US-5971591-\$ or US-5846882-\$).did. or (US-6652710-\$ or US-6287980-\$ or US-6920312-\$ or US-5325019-\$ or US-6825050-\$ or US-5458732-\$ or US-6783626-\$ or US-7054786-\$ or US-6908529-\$ or US-6863018-\$ or US-6858446-\$ or US-6985787-\$ or US-5025135-\$ or US-5405488-\$ or US-RE38273-\$ or US-5175472-\$ or US-5770922-\$ or US-6197116-\$ or US-4525871-\$ or US-5705931-\$ or US-5565737-\$ or US-6707255-\$ or US-5467013-\$ or US-6799532-\$ or US-6060329-\$ or US-6522121-\$ or US-3572948-\$).did. or (US-5691642-\$ or US-5383019-\$ or US-5029174-\$ or US-5851842-\$ or US-6573731-\$ or US-3265967-\$ or US-6861844-\$ or US-5982099-\$ or US-5793162-\$ or US-5180985-\$ or US-6741944-\$ or US-6646386-\$ or US-6132577-\$ or US-5059761-\$ or US-5308414-\$ or US-5552016-\$ or US-5013886-\$ or US-4871307-\$ or US-3694655-\$).did. or (EP-568920-\$ or EP-1265267-\$ or EP-1231524-\$ or EP-458324-\$).did. or (JP-06045267-\$ or JP-01048420-\$ or JP-61247031-\$ or JP-10041097-\$ or JP-2005268214-\$ or JP-01226153-\$ or JP-02051071-\$).did. or (SU-1184113-\$ or US-20050067102-\$ or US-20040007984-\$ or US-20060232471-\$ or US-20050119864-\$ or US-6608446-\$ or JP-2003179029-\$ or JP-2003179030-\$ or WO-9907914-\$ or EP-685729-\$ or EP-458324-\$ or JP-01226153-\$ or DE-3821208-\$).did. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2007/01/19 14:52 |
| S19 7 | 21 | S196 and (nonlinear\$5) | US-PGPUB; USPAT | OR | ON | 2007/01/19 14:52 |
| S19 8 | 5 | (non\$1linear\$5 with impedance with (sens\$3 detect\$3 measur\$3 observ\$3)) same plasma | US-PGPUB; USPAT | OR | ON | 2007/01/19 14:55 |